

**INFORMATION DISCLOSURE CITATION**  
**Form PTO-1449 (Modified)**  
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ATTY. DOCKET NO.  
UCSF088CON

SERIAL NO. *10/622,283*  
09/795,914

APPLICANT

Stern et al.

FILING DATE

February 27, 2001

GROUP

1642

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (If Appropriate)
<i>KG</i>	AA 3,945,889	03/23/1976	Mima et al.			
<i>KG</i>	AB 5,427,779	06/27/1995	Elsner et al.			

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	Subclass	Translation
	AC WO 88/02261	04/07/88	PCT			Yes No
	AD WO 89/05329	06/15/89	PCT			
	AE WO 96/03497	02/08/96	PCT			

**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

<i>KG</i>	AF	Afify et al., (1993) "Purification and Characterization of Human Serum Hyaluronidase" Arch. Biochem. Biophys. 305 (2):434-441.				
	AG	Baumgartner et al., (1988) "Phase I Study in Chemoresistant Loco-regional Malignant Disease with Hyaluronidase" Reg. Cancer Treat. 1:55-58.				
	AH	Beckenlehner et al., (1992) "Hyaluronidase Enhances the Activity of Adriamycin in Breast Cancer Models in Vitro and in Vivo" J. Cancer Res. Oncol. 118:591-596.				
	AI	Bonner et al., (1966) "Colorimetric Method for Determination of Serum Hyaluronidase Activity" Clinica Chimica Acta 13:746-752.				
	AJ	Bordier, (1981) "Phase Separation of Integral Membrane Proteins in Triton X-114 Solution" J. Biol. Chem. 256(4):1604-1607.				
	AK	Cashman et al., (1969) "The Hyaluronidase of Rat Skin" Arch. Biochem. Biophys. 135:387-395.				
	AL	Czejka et al., (1990) "Influence of hyaluronidase on the blood plasma levels of 5-fluorouracil in patients," Pharmazie 45:H.9.				
	AM	De Maeyer et al., (1992) "The Growth Rate of Two Transplantable Murine Tumors, 3LL Lung Carcinoma and B16F10 Melanoma, Is Influenced by Hyal-1, A Locus Determining Hyaluronidase Levels and Polymorphism" Int. J. Cancer 51:657-660.				
<i>KG</i>	AN	De Salegui et al., (1967) "A Comparison of Serum and Testicular Hyaluronidase" Arch. Biochem. Biophys. 121:548-554.				
	AO	Delpech et al., (1987) "An Indirect Enzymeimmunoassay for Hyaluronidase" J. Immunol. Methods 104:223-229.				
	AP	Doctor et al., (1983) "Isolation and Properties of a New Anticoagulant Protein from Commercial Bovine Testicular Hyaluronidase" Thrombosis Res. 30:565-571.				

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	AQ Dorfman et al., (1948) "A Turbidimetric Method for the Assay of Hyaluronidase" J. Biol. Chem. 172:367-375.		
KG	AR Fenger et al (1982) "Purification of Human Serum Hyaluronidase Using Chromatofocusing." (J. Chromatogr. 240:173-179)		
KG	AS Fiszler-Szafarz et al., (1989) "Hyal-1, a Locus Determining Serum Hyaluronidase Polymorphism, in Chromosome 9 in Mice" Somat. Cell. Mol. Genet. 15:79-83.		
	AT Fiszler-Szafarz et al., (1995) "Hyaluronidase in Human Somatic Tissues and Urine: Polymorphism and the Activity in Diseases." Acta Biochim Pol. 42:31-3.		
JK	AU Gabizon (1995) "Stealth Liposomes and Cancer Targeting: A Realistic Compromise in Drug Delivery." (J. Liposome Res., 5:704-710)		
	AV GenBank accession No. U03056, deposited Nov. 1, 1993.		
KG	AW Gregoriadis et al. (1993) "Liposomes in drug delivery. Clinical, diagnostic and ophthalmic potential." (Drugs, 45:15-28)		
	AX Guntenhoner et al., (1992) "A Substrate-Gel Assay for Hyaluronidase Activity" Matrix 12:388-396.		
	AY Harrison et al., (1988) "Multiple Forms of Ram and Bull Sperm Hyaluronidase Revealed by Using Monoclonal Antibodies" J. Reprod Fertil. 82:777-785.		
	AZ Hegi et al., (1994) "Allelotype Analysis of Mouse lung Carcinomas Reveals Frequent Allelic Losses on Chromosome 4 and an Association between Allelic Imbalances on Chromosome 6 and K-ras Activation," Cancer Research 54, pp. 6257-6264.		
	BA Horn et al., (1985) "Intravesical Chemotherapy of Superficial Bladder Tumors in a Controlled Trial with Cis-Platinum Versus Cis-Platinum Plus Hyaluronidase" J. Surg. Oncol. 28:304-307.		
KG	BB Johnstone et al. (1987) (Immunochemistry in Practice, Blackwell Scientific Publications, Oxford, pp. 30-31)		
	BC Kimata et al., (1983) "Increased Synthesis of Hyaluronic Acid by Mouse Mammary Carcinoma Cell Variants with High Metastatic Potential" Cancer Res. 43:1347-1354.		
	BD Kohno et al., (1994) "Effects of Hyaluronidase on Doxorubicin Penetration into Squamous Carcinoma Multicellular Tumor Spheroids and Its Cell Lethality" J. Cancer Res. Clin. Oncol. 120:293-297.		
KG	BE Kolarova et al., (1970) "Host-Tumour Relationship XXIX. Hyaluronidase Activity and Seromucoid Concentration in Blood Serum of Patients with Cancer" Neoplasma 17:641-648.		
	BF Komender et al., (1973) "Isolation of Hyaluronidase from Kidney Extract," Bull Acad. Pol. Sci. (Biol.) 21:637-41.		
	BG Kreil, (1995) "Hyaluronidases--A Group of Neglected Enzymes" Protein Sci. 4:1666-1669.		
	BH Levy et al., (1966) "Mammalian Glycosidases and Their Inhibition by Aldonolactones" Method Enzymol. 8:571-584.		
	BI Lien et al., (1990) "Collagen, Proteoglycan and Hyaluronidase Activity in Cultures from Normal and Scoliotic Chicken Fibroblasts" Biochim. Biophys. Acta. 1034:318-325.		
	BJ Liu et al., (1996) "Expression of Hyaluronidase by Tumor Cells Induces Angiogenesis In Vivo" Proc. Natl. Acad. Sci. USA 93 (15):7832-7837.		
	BK Margolis et al., (1972) "The Hyaluronidase of Brain," J. Neurochem. 19:2325-32.		
KG	BL Natowicz et al., (1996) "Clinical and Biochemical Manifestations of Hyaluronidase Deficiency" N. Engl. J. Med. 335 (14):1029-1033.		

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BM	<del>Netowicz, et al., (1996) "Human Serum Hyaluronidase: Characterization of a Clinical Assay," Clinical. Chimica. Acta., 245:1-6</del>		
BN	<del>Northrup et al., (1973) "Development of the Hyaluronidase Activity Assay As A Cancer Screening Test" Clin. Biochem. 6:220-228.</del>		
BO	<del>Palowski et al., (1981) "The Effects of Hyaluronidase Upon Tumor Formation in BALB/c Mice Irradiated with Ultraviolet Light" Carcinogenesis (Proceedings of the 17th Annual Meeting of the American Society of Clinical Oncology), Washington, D.C., 22:105, (abstract 415).</del>		
BP	<del>Pawlowski et al., (1979) "Effects of Hyalurodinase Upon Tumor Formation in BALB c Mice Painted with 7,12-Dimethylbenz-(<math>\alpha</math>)Anthracene" Int. J. Cancer 23:105-109.</del>		
BQ	<del>Reissig et al., (1955) "A Modified Colorimetric Method for the Estimation of N-Acetyl amino Sugars" J. Biol. Chem. 217:959-966.</del>		
BR	<del>Ruggiero et al., (1987) "Hyaluronidase Activity of Rabbit Skin Wound Granulation Tissue Fibroblasts" J. Dent. Res. 66(7):1283-1287.</del>		
BS	<del>Scheithauer et al., (1988) "In Vitro Evaluation of the Anticancer Drug Modulatory Effect of Hyaluronidase in Human Gastrointestinal Cell Lines" Anticancer Res. 8:391-396.</del>		
BT	<del>Schuller et al., (1991) "Pharmacokinetics of Intrahepatic 5-Fluorouracil <math>\pm</math> Preinjected Hyaluronidase (Neopermease, N)" Proc. Amer. Assoc. Cancer Res. 32:173, (Abstract No. 1034).</del>		
BU	<del>Stern et al., (1992) "An Elisa-Like Assay for Hyaluronidase and Hyaluronidase Inhibitors" Matrix 12:397-403.</del>		
BV	<del>Thet et al., (1983) "Changes in Lung Hyaluronidase Activity Associated with Lung Growth, Injury and Repair" Biochem. Biophys. Res. Commun. 117:71-77.</del>		
BW	<del>Underhill, (1991) "CD44: The Hyaluronan Receptor" J. Cell Science 103:293-298.</del>		
BX	<del>van den Berg et al., (1995) "Exogenous Glycosyl Phosphatidylinositol-anchored CD59 Associates with Kinases in Membrane Clusters on U937 Cells and Becomes Ca<sup>2+</sup>-signaling Competent" J. Cell Biology 131(3):669-677.</del>		
BY	<del>Wolf et al., (1982) "The Serum Kinetics of Bovine Testicular Hyaluronidase in Dogs, Rats and Humans" J. Pharmacol. Exper. Therap. 222(2):331-337.</del>		
BZ	<del>Zanker et al., (1986) "Induction of Response in Previous Chemotherapy Resistant Patients by Hyaluronidase" Proc. Amer. Assoc. Cancer Res. 27:390 (Abstract 1550).</del>		

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<b>EXAMINER</b> <i>Karen A. G. [Signature]</i>	<b>DATE CONSIDERED</b> <i>8/25/04</i>
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